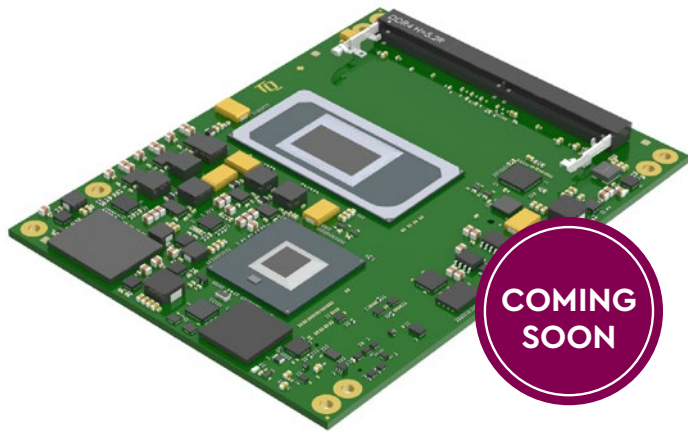


TQMx110EB

x86 Family



COM Express® Basic Type 6 Module with 11th Generation Intel® Core™ Processors.

Based on

COM Express



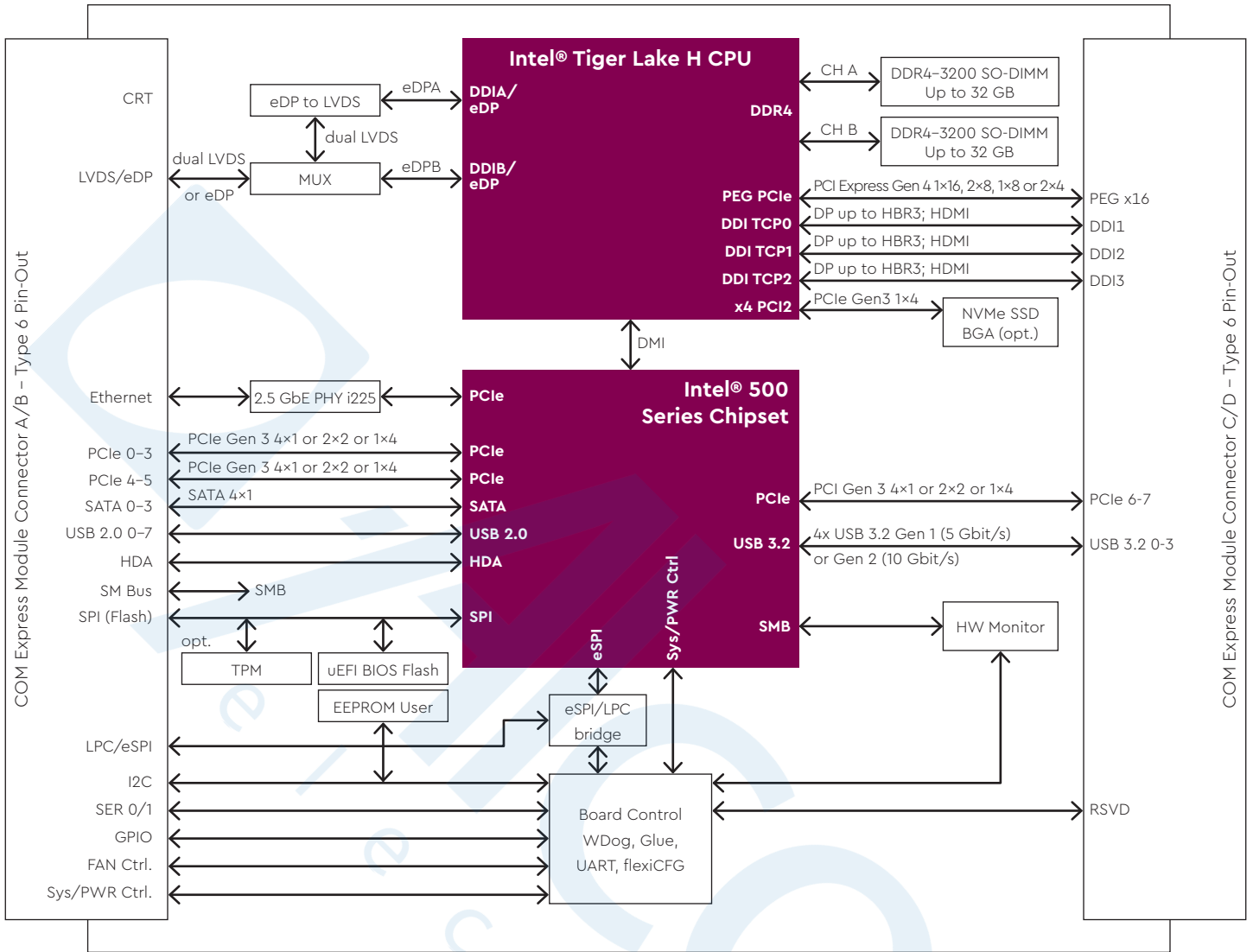
HIGHLIGHTS

- ▶ 11th Generation Intel® Core™ i7 and Intel® Core™ i5 processors
- ▶ Desktop / Mobile Workstation Performance
- ▶ Up to 8 Cores / 16 Threads with up to 4.6 GHz Turbo and 24 MB cache
- ▶ New outstanding Intel® Iris® Xe Graphics performance with 8 K high-resolution outputs
- ▶ Flexible high-speed Memory Configuration with up to 64 GB
- ▶ High-bandwidth extendability through PCIe Gen4 x16 PEG Port
- ▶ High-speed peripheral interfaces with USB 3.2 Gen 2 (10 Gb/s) support
- ▶ 2.5 Gb Ethernet
- ▶ High CPU power efficiency with max. 45 W TDP

TECHNICAL SPECIFICATION

CPU	Intel® Core™ i7-11800H (8 × 2.4 GHz / 4.6 GHz Turbo, 24 MB Cache, 45 W (cTDP 35 W), 0° C – 100° C) Intel® Core™ i5-11400H (6 × 2.6 GHz / 4.5 GHz Turbo, 12 MB Cache, 45 W (cTDP 35 W), 0° C – 100° C)	Interfaces	1x 2.5 Gigabit Ethernet (Intel® i225) 4x USB 3.2 Gen2 (up to 10 Gb/s) with USB 3.0 compatibility 8x USB 2.0 1x PEG-Port with PCIe Gen4 (up to 16 Gb/s per lane) (1×16, 2×8 or 2×4+1×8) 8x PCIe Gen3 (up to 8 Gb/s) (8×1, 4×2 or 2×4) 4x SATA Gen3 (up to 6 Gb/s) 1x LPC or eSPI 1x I2C (master/slave capable), 2nd port opt. 1x SMBus 1x SPI (for external UEFI BIOS flash) 2x UART (Rx/Tx) (4-wire optional through TQ flexiCFG) 8x GPIO through TQ flexiCFG
Memory	DDR4-3200: up to 64 GB, 2 SO-DIMMs Onboard soldered NVMe SSD (PCIe Gen3 x4) up to 1 Tbyte (option) EEPROM: 32 kbit (24AA32) (option)	Power supply	Volatge: 14.5 V – 20 V, 5 V Standby (opt.), 3 V battery Power: typ. 25 W – 30 W / max. 60 W (preliminary)
Graphics	Up to 4 independant display outputs: 3x Digital Display Interface / DP++ with up to 8K; DisplayPort 1.4a with support for Multi-Stream Transport (MST) 1x Embedded Digital Display Interface (eDP 1.4b) or dual channel LVDS interface	Environment	Temperature: 0°C...+60°C
Additional components and controller	1x TPM 2.0 (SLM9670) (option) or internal firmware TPM (FTPM) TQMx86 board controller with watchdog and TQ-flexiCFG Hardware monitor for thermal mamangement	Form factor/ dimensions	COM Express® Basic, Type 6 125 mm x 95 mm

BLOCK DIAGRAM TQMx110EB



ORDERING INFORMATION

TQMx110EB-AA Intel® Core™ i7-11800H, no onboard SSD, TPM 2.0

TQMx110EB-AB Intel® Core™ i5-11400H, no onboard SSD, no TPM

Other configurations on request